

WEST Search History

DATE: Thursday, April 01, 2004

| <u>Hide?</u> | <u>Set Name</u> | <u>Query</u> | <u>Hit Count</u> |
|----------------------------------|-----------------|---|------------------|
| <i>DB=USPT; PLUR=YES; OP=AND</i> | | | |
| <input type="checkbox"/> | L1 | atph.clm. or atp-h.clm. or (atp near2 h).clm. | 4 |
| <input type="checkbox"/> | L2 | atph. or atp-h or (atp near2 h) not l1 | 116 |
| <input type="checkbox"/> | L3 | atph or atp-h or (atp near2 h) not l1 | 135 |
| <input type="checkbox"/> | L4 | l3 same (subunit or sub-unit or domain or fragment or portion or region or section or function or functional or functionally) | 26 |
| <input type="checkbox"/> | L5 | atp.ti. | 75 |
| <input type="checkbox"/> | L6 | (atpase or atp-ase).ti. | 26 |

END OF SEARCH HISTORY

Search Results - Record(s) 6 through 26 of 26 returned.

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7. 6485935. 11 Jan 00; 26 Nov 02. Structure of the ankyrin binding domain of a .alpha.-Na, K-ATPase. Morrow; Jon S., et al. 435/69.1; 435/189 435/193 435/212 435/252.3 435/320.1 435/69.7 530/328 530/330 530/362 530/364 536/23.1 536/23.2. C12P021/06 C12P021/02 C12N009/02 C07K001/00 C07H021/04.

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| Terms | Documents |
|-------------------------|-----------|
| (atpase or atp-ase).ti. | 26 |

[Prev Page](#) [Next Page](#) [Go to Doc#](#)

First Hit Fwd Refs

L6: Entry 6 of 26

File: USPT

Dec 10, 2002

US-PAT-NO: 6492181
DOCUMENT-IDENTIFIER: US 6492181 B1

TITLE: Atpase assay

DATE-ISSUED: December 10, 2002

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|--------------|----------|-------|----------|---------|
| White; Peter | Montreal | | | CA |

ASSIGNEE-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY | TYPE CODE |
|------------------------------------|-------|-------|----------|---------|-----------|
| Boehringer Ingelheim (Canada) Ltd. | Laval | | | CA | 03 |

APPL-NO: 09/ 595833 [PALM]

DATE FILED: June 16, 2000

PARENT-CASE:

This application claims the benefits of priority application 60/139,629 filed Jun. 17, 1999.

INT-CL: [07] G01 N 33/00, G01 N 33/546, C12 Q 1/00

US-CL-ISSUED: 436/103; 436/534, 436/800, 436/804, 435/4

US-CL-CURRENT: 436/103; 435/4, 436/534, 436/800, 436/804

FIELD-OF-SEARCH: 436/103, 436/800, 436/804, 436/534, 435/4

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

| PAT-NO | ISSUE-DATE | PATENTEE-NAME | US-CL |
|---|---------------|-----------------|-------|
| <input type="checkbox"/> <u>4568649</u> | February 1986 | Bertoglio-Matte | |

FOREIGN PATENT DOCUMENTS

| FOREIGN-PAT-NO | PUBN-DATE | COUNTRY | US-CL |
|----------------|-----------|---------|-------|
| WO 99/57283 | July 1992 | WO | |

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ART-UNIT: 1627

PRIMARY-EXAMINER: Venkat; Jyothsna

ASSISTANT-EXAMINER: Chaudhry; Mahreen

ATTY-AGENT-FIRM: Raymond; Robert P. Pocchiari; Susan K. Devlin; Mary-Ellen M.

ABSTRACT:

The present invention uses the principle that phosphomolybdate binds to hydrophobic surfaces to isolate the phosphomolybdate complex from other phosphate-containing molecules and further uses the SPA concept to bring a radiolabeled phosphomolybdate complex in close contact with a scintillant for measurement by scintillation counting. Generally, the present invention provides an assay for detecting and measuring the amount of orthophosphate (Pi) in an aqueous reaction mixture, wherein the amount of Pi released is separated from the reaction mixture by: adding a solution of molybdate to the reaction mixture to form a phosphomolybdate complex; and contacting the phosphomolybdate complex with a hydrophobic surface, wherein the surface is capable of being separated from the aqueous reaction mixture to allow measurement of the Pi . Particularly, this invention provides an assay for measuring the ATPase activity of enzymes, more particularly, the HPV E1 helicase.

18 Claims, 26 Drawing figures

| Set | Items | Description |
|-----|-------|---|
| S1 | 0 | PASTEURELLAC? AND ATPG? |
| S2 | 0 | PASTEURELLELLAC? |
| S3 | 46868 | PASTEURELLA? |
| S4 | 40 | S3 AND (ATPG OR ATPASEG OR F1) |
| S5 | 16 | S4/1999:2004 |
| S6 | 1 | S3 AND ATPG? |
| S7 | 24 | S4 NOT S5 |
| S8 | 873 | 'ATPG' OR 'ATPG GENE' OR 'ATPGAMMA' OR 'ATPGAMMA S' |
| S9 | 283 | S8/2000:2004 |
| S10 | 590 | S8 NOT S9 |
| S11 | 0 | S10 AND PASTEUR? |
| S12 | 0 | S10 AND HAEMOPH? |
| S13 | 0 | S10 AND HEMOPH? |
| S14 | 0 | S10 AND ACTINOBACIL? |
| S15 | 0 | S10 AND PASTEURE? |

?s s3 and s8